

Partial translation of JP-U-63-189906 (P3, L1 – P4, L18)

In Figs. 1 to 3, (1) denotes a ceiling member. The ceiling member (1) is constructed of a corrugated cardboard (2) as a base member and a surface member (3). The cardboard (2) is formed into a predetermined shape, and constructed of surface layers (2)A, (2)B and a corrugated core layer (2)C disposed between the surface layers (2)A, (2)B. The surface layer (2)A that is located more inside of a compartment than the surface layer (2)B has holes (4). The surface member (3) is made of a breathable material such as nonwoven fabric, woven fabric and the like. The cardboard (2) is air-tightly sealed by crushing its periphery. A distributing pipe (6) to which air conditioner passages (5)A, (5)B are coupled is connected to a rear end of the cardboard (2). As shown in Fig. 3, the distributing pipe (6) is formed with holes (6)A that are in communication with passages (2)D defined by the core layer (2)C of the cardboard (2).

In the above construction, air, which has been conditioned such as by dehumidifying, cooling, heating and the like is introduced in the distributing pipe (6) from the air conditioner passages (5)A, 5(B). The air is further introduced in the longitudinal direction of the distributing pipe (6) and distributed into the passages (2)D of the cardboard (2) through the holes (6)A of the distributing pipe (6). The air is blown into the compartment through the holes (4) of the surface layer (2)A of the cardboard (2) and the surface member (3), as shown by arrows in Fig. 2. At this time, although the air is blown out entirely over the ceiling member (1), flow speed of the air is reduced while passing through the surface member (2). Thus, the air is blown to a body mildly.

Fig. 4 shows a second embodiment of the present invention. A ceiling member (11) is constructed of a base member (12) having holes (12)A and a surface member (13) made of a breathable material. The base member (12) is for example made of a resin board, polyurethane foam with synthetic resin, polystyrene foam, cardboard, and the like. Both ends of the ceiling member (11) are supported on a ceiling panel (17) of a vehicle through support plates (19), (19) with a small clearance (16). The ceiling panel (17) is backed with a thermal insulating member (18). Also, in this embodiment, the air conditioner passages (15)A, (15)B are connected to the ceiling member (11) through the clearance (16).

In the above construction, the air from the air conditioner passages (15)A, 15(B) is blown into the compartment through the holes (12)A of the base member (12) and the surface member (13) of the ceiling member (11), as shown by arrows in Fig. 4.

EAST Search History

L22	1	"5757931".PN.	USPAT; USOCR	OR	ON	2006/04/15 13:45
L23	[]	"6175592".PN.	LED ATTACKED		ON	2006/04/15 14:33
	1	"6184935".PN.	USPAT; USOCR	OR	ON	2006/04/15 14:33
L25		"6025878".PN.	USPAT; USOCR	OR	ON	2006/04/15 14:33

4/15/06 2:34:00 PM Page 2

EAST Search History

Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
1	(scal\$4 and interpolat\$6 and	US-PGPUB	OR	ON	2006/04/15 14:40
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	intermediat\$4 and equal\$3 and adjust\$4 and factor\$2) clm				
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4/15/06 2:40:11 PM Page 1



Search Result - Print Format

< Back t

Key: IEEE JOURNAL = IEEE JOURNAL or Magazine, IEEE JNL = IEE Journal or Magazine, IEEE CNF = IEEE Conference, IEEE STD = IEEE Standard

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